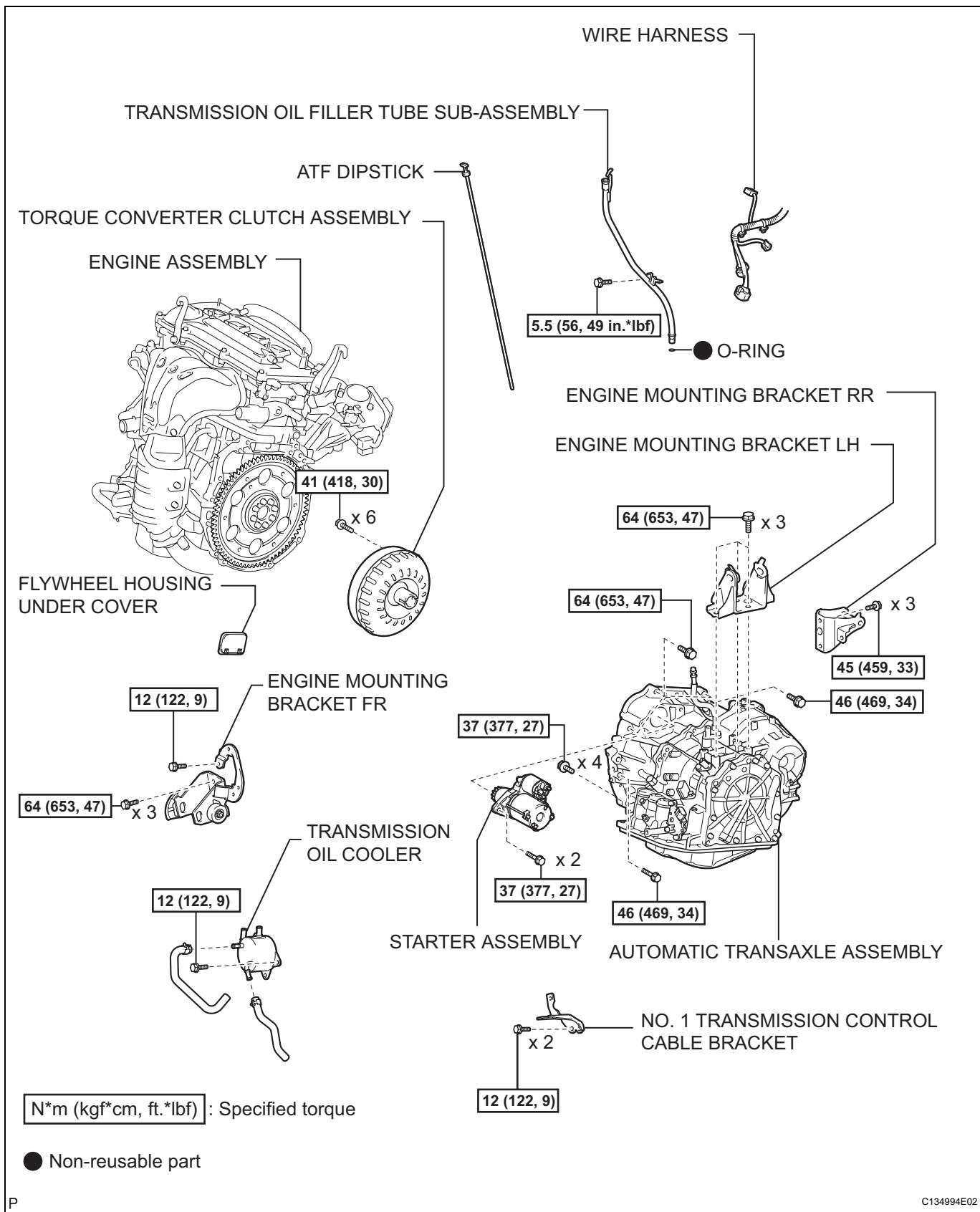


AUTOMATIC TRANSAXLE ASSEMBLY

COMPONENTS



AX

REMOVAL

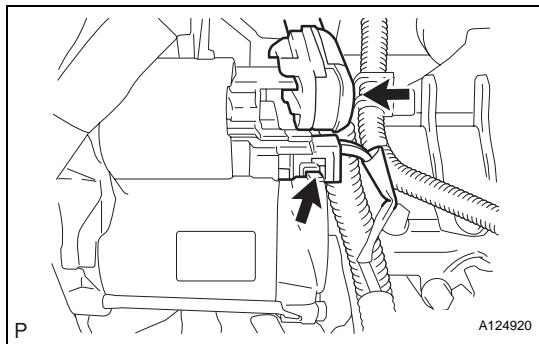
1. REMOVE ENGINE ASSEMBLY WITH TRANSAXLE
 - (a) Remove the engine with transaxle (see page [EM-98](#)).

2. DRAIN AUTOMATIC TRANSAXLE FLUID

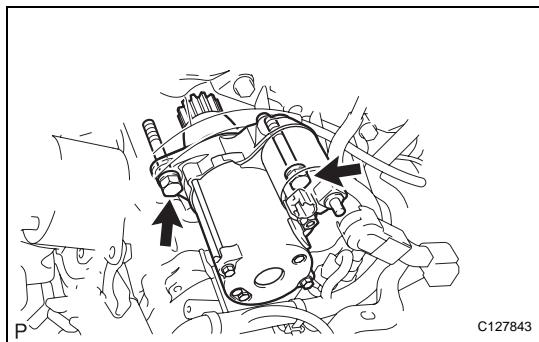
- (a) Remove the drain plug and gasket, and drain ATF.
- (b) Install a new gasket and the drain plug.
Torque: 47 N*m (479 kgf*cm, 35 ft.*lbf)

3. REMOVE STARTER ASSEMBLY

- (a) Disconnect the starter connector.
- (b) Open the terminal cap, and remove the nut and disconnect the starter wire.



- (c) Remove the 2 bolts and starter.

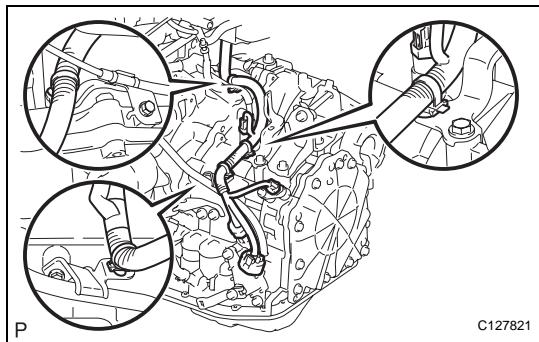


4. DISCONNECT WIRE HARNESS

- (a) Disconnect the park/neutral position switch connector.
- (b) Disconnect the transaxle wire connector.
- (c) Disconnect the speed sensor connectors.
- (d) Disconnect the wire harness clamps.

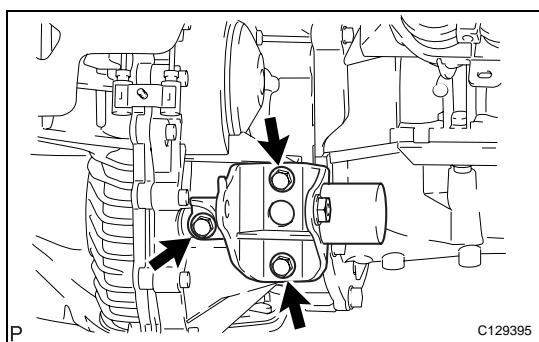
5. REMOVE TRANSMISSION OIL COOLER

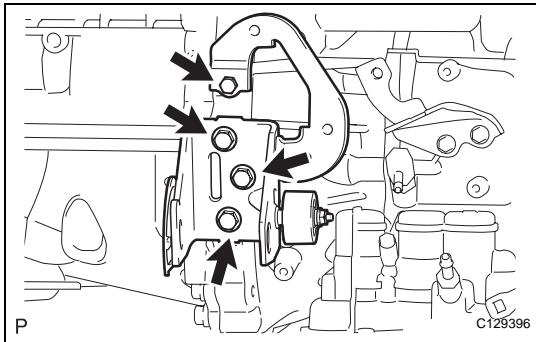
- (a) Remove the oil cooler (see page [AX-127](#)).



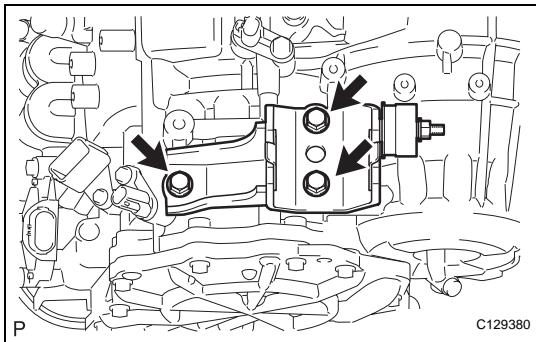
6. REMOVE ENGINE MOUNTING BRACKET RR

- (a) Remove the 3 bolts and mounting bracket.

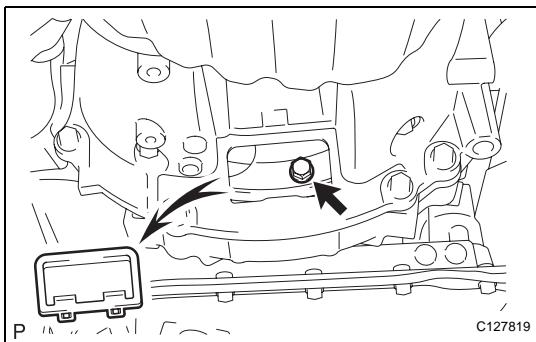


**7. REMOVE ENGINE MOUNTING BRACKET FR**

(a) Remove the 4 bolts and mounting bracket.

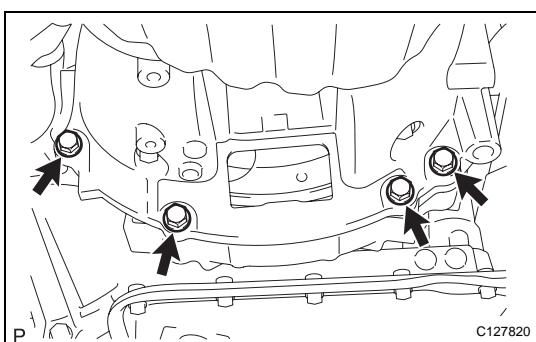
**8. REMOVE ENGINE MOUNTING BRACKET LH**

(a) Remove the 3 bolts and mounting bracket.

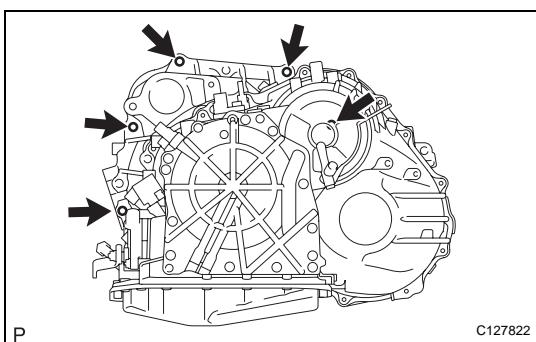
**9. REMOVE AUTOMATIC TRANSAXLE ASSEMBLY**

(a) Remove the flywheel housing under cover.
(b) Turn the crankshaft to gain access and remove the 6 bolts while holding the crankshaft pulley bolt with a wrench.

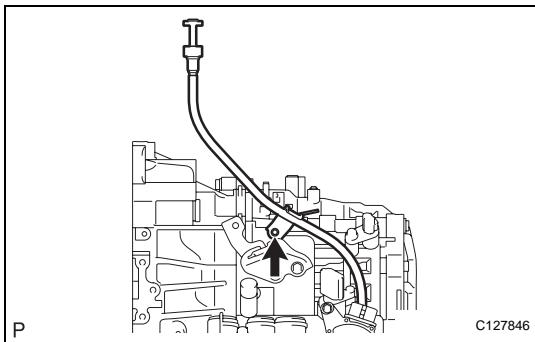
(c) Remove the 4 lower side mounting bolts.



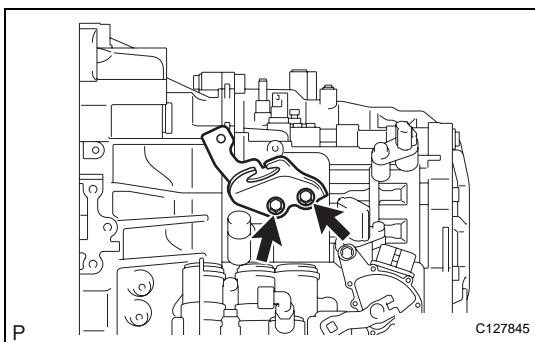
(d) Remove the 5 upper side mounting bolts.
(e) Separate and remove the automatic transaxle.



AX

**10. REMOVE TRANSMISSION OIL FILLER TUBE SUB-ASSEMBLY**

- (a) Remove the ATF dipstick.
- (b) Remove the bolt and oil filler tube.

**11. REMOVE NO. 1 TRANSMISSION CONTROL CABLE BRACKET**

- (a) Remove the 2 bolts and cable bracket.

12. REMOVE TORQUE CONVERTER CLUTCH ASSEMBLY

INSTALLATION

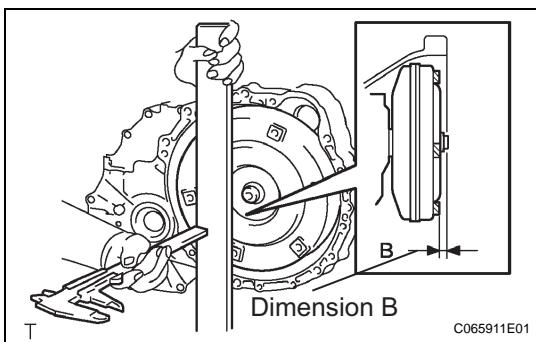
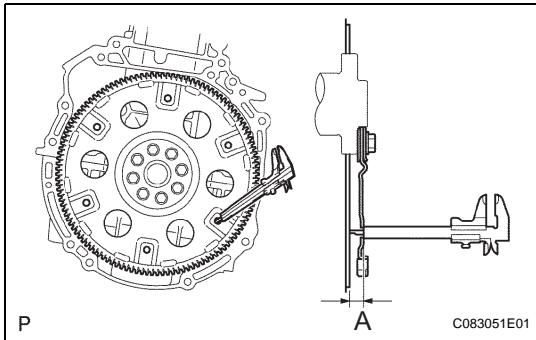
1. INSPECT TORQUE CONVERTER CLUTCH ASSEMBLY

(a) Inspect the torque converter (see page AX-152).

2. INSTALL TORQUE CONVERTER CLUTCH ASSEMBLY

(a) Install the torque converter clutch to the automatic transaxle.

(b) Using a vernier caliper, measure dimension A between the transaxle and the end surface of the drive plate.



(c) Using a vernier caliper and straightedge, measure the dimension B shown in the illustration and check that B is greater than A.

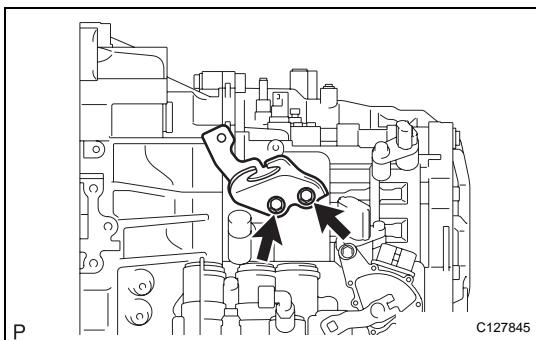
Standard dimension:

$A + 1.0 \text{ mm (0.039 in.) or more}$

3. INSTALL NO. 1 TRANSMISSION CONTROL CABLE BRACKET

(a) Install the cable bracket with the 2 bolts.

Torque: $12 \text{ N}\cdot\text{m (122 kgf}\cdot\text{cm, 9 ft}\cdot\text{lbf)}$

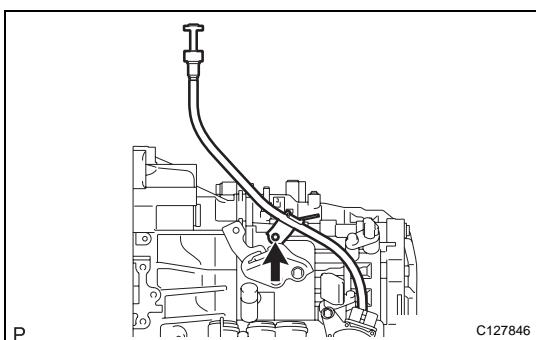


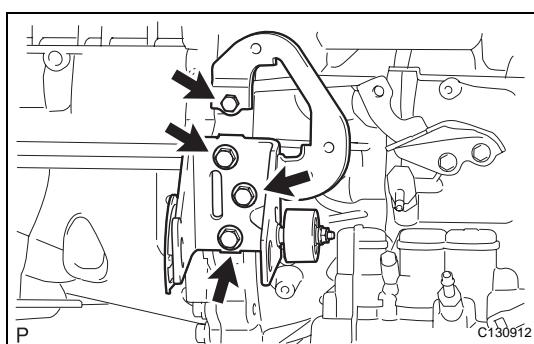
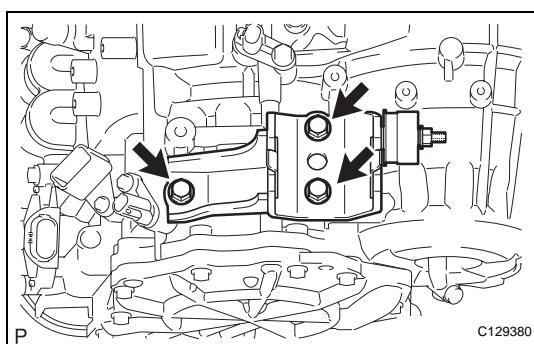
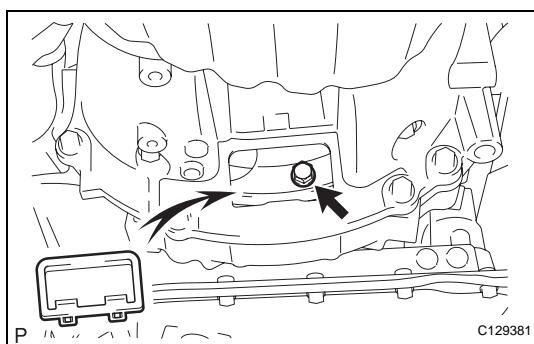
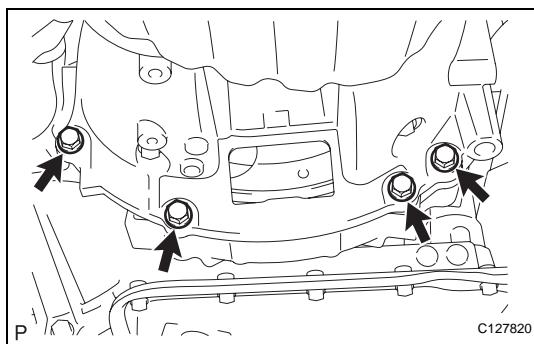
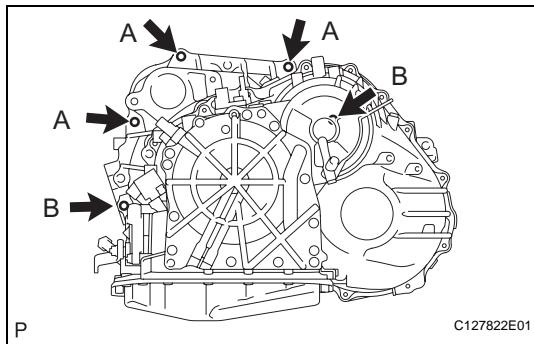
4. INSTALL TRANSMISSION OIL FILLER TUBE SUB-ASSEMBLY

(a) Install the filler tube with the bolt.

Torque: $5.5 \text{ N}\cdot\text{m (56 kgf}\cdot\text{cm, 49 in}\cdot\text{lbf)}$

(b) Install the ATF dipstick.





5. INSTALL AUTOMATIC TRANSAXLE ASSEMBLY

(a) Install the automatic transaxle with the 5 upper side mounting bolts to the engine.

**Torque: 64 N*m (653 kgf*cm, 47 ft.*lbf) for bolt A
46 N*m (469 kgf*cm, 34 ft.*lbf) for bolt B**

(b) Install the 4 lower side mounting bolts.

Torque: 37 N*m (377 kgf*cm, 27 ft.*lbf)

(c) Install the 6 torque converter clutch mounting bolts.

Torque: 41 N*m (418 kgf*cm, 30 ft.*lbf)

HINT:

First install the green colored bolt and then the 5 bolts.

(d) Install the flywheel housing under cover.

6. INSTALL ENGINE MOUNTING BRACKET LH

(a) Install the mounting bracket with the 3 bolts.

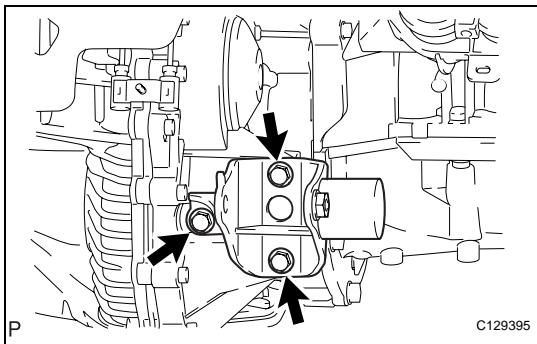
Torque: 64 N*m (653 kgf*cm, 47 ft.*lbf)

7. INSTALL ENGINE MOUNTING BRACKET FR

(a) Install the mounting bracket with the 4 bolts.

Torque: 64 N*m (657 kgf*cm, 47 ft.*lbf) for 14 mm head bolt

12 N*m (122 kgf*cm, 9 ft.*lbf) for 12 mm head bolt

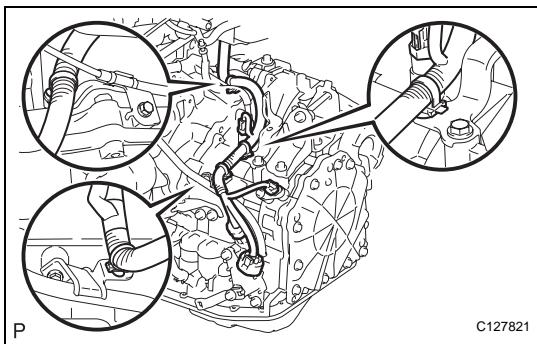


8. INSTALL ENGINE MOUNTING BRACKET RR

- (a) Install the mounting bracket with the 3 bolts.
Torque: 45 N*m (459 kgf*cm, 33 ft.*lbf)

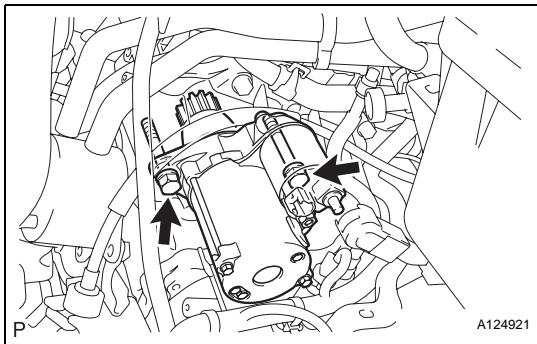
9. INSTALL TRANSMISSION OIL COOLER

- (a) Install the oil cooler (see page [AX-127](#)).



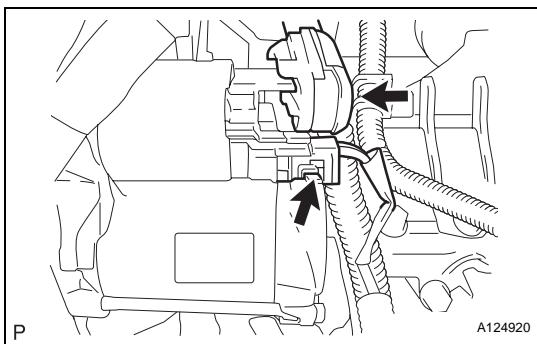
10. CONNECT WIRE HARNESS

- (a) Connect the wire harness clamps.
- (b) Connect the speed sensor connectors.
- (c) Connect the transaxle wire connector.
- (d) Connect the park/neutral position switch connector.



11. INSTALL STARTER ASSEMBLY

- (a) Install the starter with the 2 bolts.
Torque: 37 N*m (377 kgf*cm, 27 ft.*lbf)



- (b) Connect the starter wire with the nut.

Torque: 13 N*m (133 kgf*cm, 10 ft.*lbf)

- (c) Connect the starter connector.

- (d) Install the terminal nut and cover the nut with the cap.

Torque: 9.8 N*m (100 kgf*cm, 7 in.*lbf)

12. INSTALL ENGINE ASSEMBLY WITH TRANSAXLE

- (a) Install the engine with transaxle (see page [EM-105](#)).

13. ADD AUTOMATIC TRANSAXLE FLUID

Fluid type:

Toyota Genuine ATF WS

14. INSPECT AUTOMATIC TRANSAXLE FLUID

- (a) Inspect the automatic transaxle fluid (see page [AX-102](#)).

15. PERFORM RESET MEMORY

- (a) Perform the RESET MEMORY procedures (A/T initialization) (see page [AX-18](#)).

AX